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(54) SEPARATION METHOD FOR POLYGLYCERIN COMPOSITION

(57) Abstract:

PURPOSE: To easily obtain a polyglycerin composition with desired molecular weight by chromatographic separation of a polyglycerin composition with broad molecular weight distribution using a specific ion exchange resin.

CONSTITUTION: A polyglycerin composition with desired molecular weight can be obtained by simply making a chromatographic separation of (A) a polyglycerin composition with broad molecular weight distribution produced by polymerizing glycerin using (B) a

gel-type strongly acidic cation exchange resin having polystyrene skeleton with a degree of cross-linking of 5-8%. The parent resin for the ion exchange resin is a granular resin with three-dimensional network structure (gel-type) produced by copolymerization using styrene as the chief monomer component and e.g. divinylbenzene as cross-linking monomer. The ion exchange resin to be used has sulfonate group as the strongly acidic cation exchange group at 1.0-2.0meq/l in terms of exchange capacity. The counterion is e.g. H⁺, Na⁺. It is preferable that the original polyglycerin composition contains >40wt.% of components 2-8 in degree of polymerization.

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